

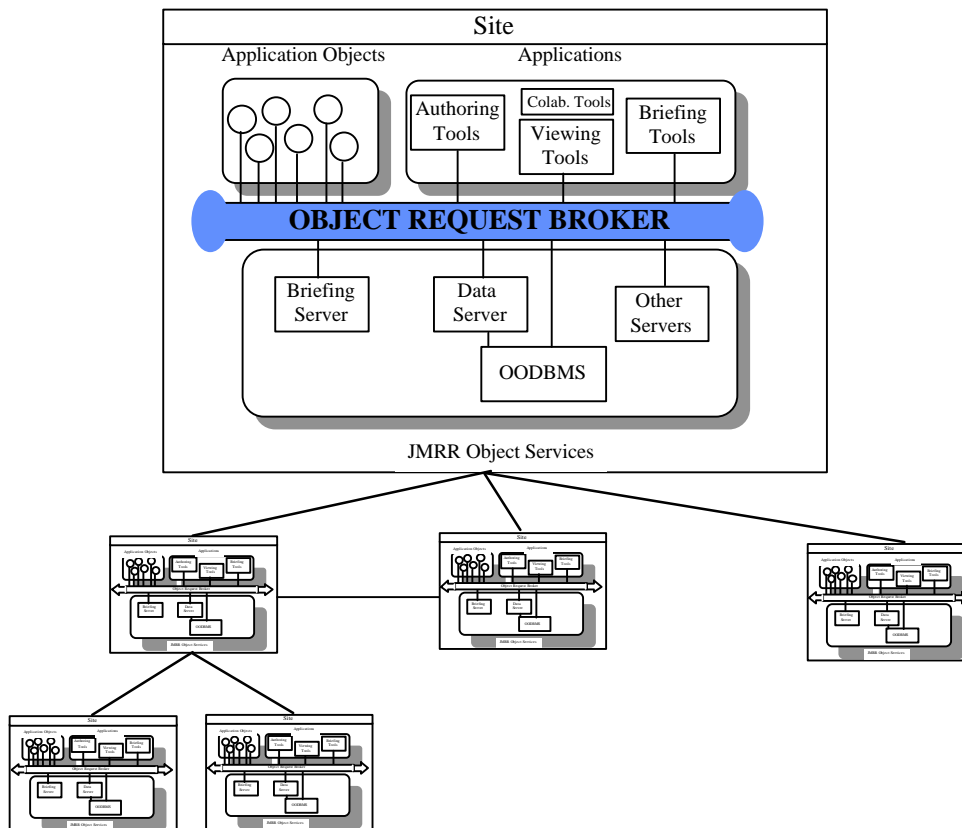
Component Architecture/Design Diagram

Automated Joint Monthly Readiness Report

AJMRR

(Provide hardware/software allocation diagram illustrating component modules, platforms they run on, internal and external interfaces, databases, and APIs supported)

Technical Architecture



- Sites connected to one or more sites.
- Scenarios, forms, annotations, and all other data that can be passed between sites are represented as objects on the ORB.
- Objects may be persistent or transient.
- Persistent objects may be stored in an OODBMS or through any CORBA persistence service.
- Objects can be moved or copied onto any ORB, from any ORB.
- There is no primary or master ORB, but certain Objects may have a primary location.

Architecture Notes:

- The AJMRR is JTFRA compliant. It currently does not make use of any of the JTFRA servers or services. We envision that the AJMRR will, in a future release, call information from the JRAMS server and can add a JMRR object to the War Plan Object should such a need arise.
- AJMRR will require integration with the GCCS communications services.
- AJMRR uses existing military secure networks to pass readiness information between organizations.

Platform and Interface Details

(Cover each platform from the diagram)

AJMRR

PLATFORM H/W: Sun SPARC, TAC-4 (HP 9000), and PC compatibles

PLATFORM OS: Solaris 2.5.X, HPUX 9.X, Windows NT, Windows 95

OTHER COTS SYSTEM SOFTWARE: Orbix 2.0.1, Sun CDE 1.0.1, Netscape 3.X, CUSeeMe 2.X.

APIs AND STANDARDS SUPPORTED: (Including communications protocols and standards)

HCI meets DII COE standards, CORBA, TCP/IP, HTTP, HTML 3.0.

Component Details

AJMRR

Component Design

COTS/GOTS Dependencies (to include information and other applications):

Orbix 2.0.1

HARDWARE/OS DEPENDENCIES: Sun SPARC, TAC-4 (HP 9000), and PC compatibles

DESIGN METHODS/REPRESENTATION: Object Oriented/GUI

DESIGN STANDARDS: (References) Booch Method for Object Oriented Design

DESIGN ARTIFACTS (INCLUDING CASE TOOL DATABASES): (Available and Planned)

AJMRR Design Document. No CASE tools used.

INTERFACE DOCUMENTATION: (Internal & external and when it will be updated)

CORBA Interface Definition Language (IDL).

DATABASE VIEW DOCUMENTATION: (References and when it will be updated)

No database. Plan to incorporate Oracle RDBMS in FY 97

Component Implementation

LANGUAGES USED: C++, Java, IDL

SOFTWARE SIZE: (Planned or Actual) 60,000 lines current initial prototype version.

USER INTERFACE TECHNOLOGY: Galaxy 2.X.

REUSED MODULES: MVT_Interface

AVAILABLE ON-LINE: AJMRR Web Page at <http://www.advtech543.saic.com/ajmrr>